

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332037-830

Luminaire Tested: **S123DIP-S1000D1195U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332037-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1000D1195U830-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7862.2 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

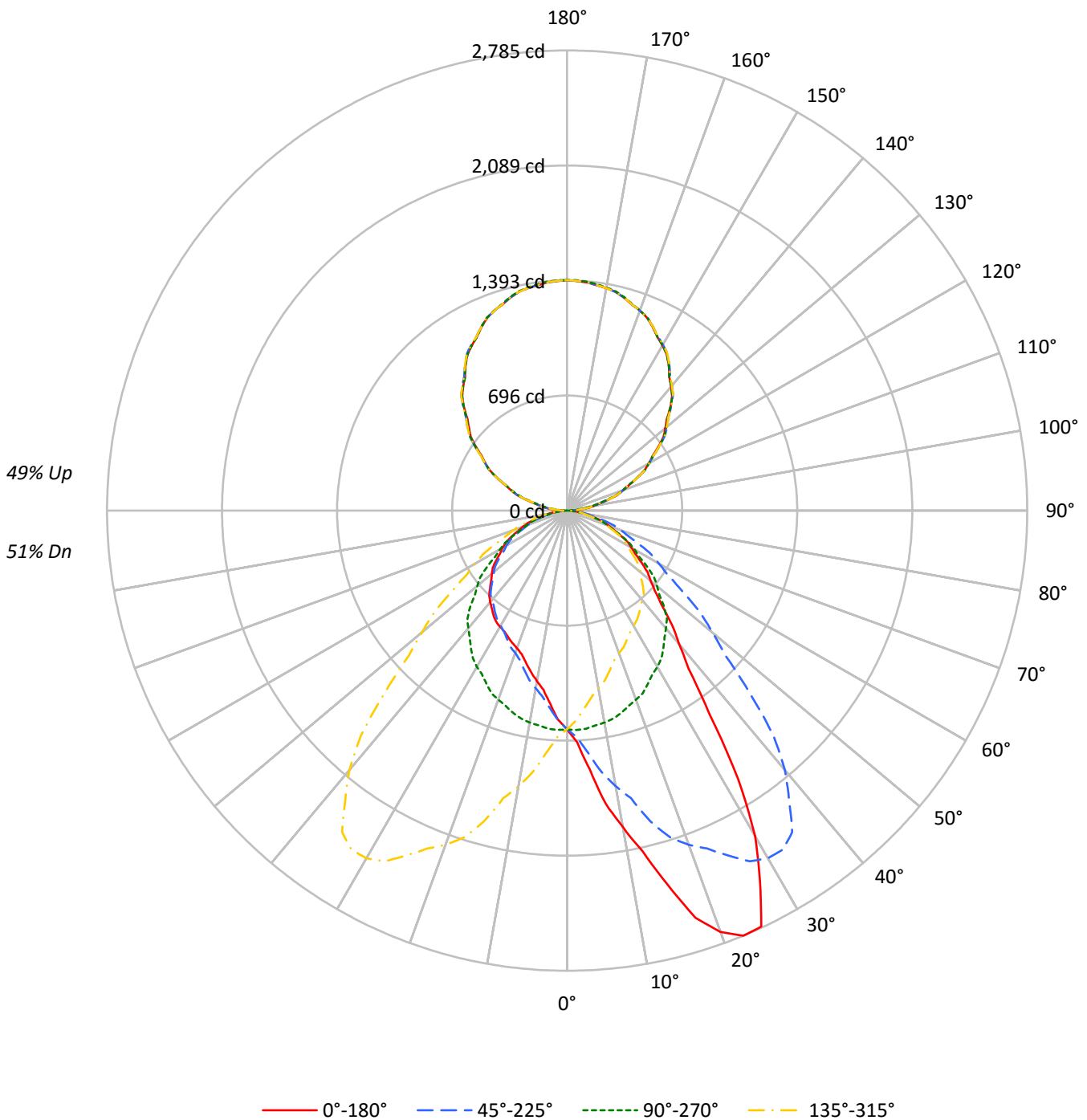
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				51
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43				43
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37				37
3	82	73	65	60	75	67	61	56	58	53	49	48	45	42	40	38	35	31				31
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27				27
5	69	57	49	44	64	54	46	41	46	40	36	39	35	31	32	29	27	24				24
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21				21
7	59	47	39	33	54	44	36	31	38	32	28	32	28	24	27	24	21	19				19
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	17				17
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15				15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14				14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	14249	14249	14249	14249
5°	16993	14311	12682	14311
10°	21270	14238	11455	14238
15°	26088	14123	10664	14123
20°	31078	13945	10153	13945
25°	32999	13726	10041	13726
30°	28285	13569	10092	13569
35°	19671	13341	10198	13341
40°	14816	13078	10166	13078
45°	12301	12683	10036	12683
50°	11020	11879	9945	11879
55°	10303	11012	9822	11012
60°	9664	10107	9722	10107
65°	9085	9212	9411	9212
70°	8519	8195	8960	8195
75°	7627	7178	8218	7178
80°	6676	5883	7073	5883
85°	5224	4273	4755	4273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	1.7
10°-20°	418.2	5.3
20°-30°	701.8	8.9
30°-40°	794.6	10.1
40°-50°	712.6	9.1
50°-60°	575.1	7.3
60°-70°	400.7	5.1
70°-80°	210.6	2.7
80°-90°	55.6	0.7
90°-100°	90.8	1.2
100°-110°	271.8	3.5
110°-120°	462.3	5.9
120°-130°	608.1	7.7
130°-140°	683.5	8.7
140°-150°	671.9	8.5
150°-160°	565.6	7.2
160°-170°	376.5	4.8
170°-180°	131.8	1.7
0°-30°	1250.4	15.9
0°-40°	2045.0	26.0
0°-60°	3332.7	42.4
0°-90°	3999.7	50.9
90°-120°	825.0	10.5
90°-150°	2788.5	35.5
90°-180°	3863.0	49.1
0°-180°	7862.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1573	1324	1174	1324	1573	163
15°	2341	1267	957	1267	2341	676
25°	2778	1156	845	1156	2778	1219
35°	1497	1015	776	1015	1497	973
45°	808	833	659	833	808	640
55°	549	587	523	587	549	493
65°	357	362	370	362	357	355
75°	183	173	198	173	183	196
85°	42	35	38	35	42	51
90°	33	1	33	1	33	18
95°	85	65	85	65	85	88
105°	261	246	261	246	261	277
115°	467	465	467	465	467	462
125°	674	681	674	681	674	602
135°	883	884	883	884	883	679
145°	1072	1072	1072	1072	1072	669
155°	1225	1228	1225	1228	1225	564
165°	1333	1337	1333	1337	1333	376
175°	1385	1391	1385	1391	1385	132
180°	1394	1394	1394	1394	1394	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1404.9	1403.9	1401.3	1403.4	1399.3	1393.6	1393.1	1388.0	1373.1	1372.1	1368.0
5°	1572.7	1567.5	1566.9	1566.3	1557.3	1545.1	1522.0	1520.1	1489.3	1473.9	1455.3
7.5°	1790.0	1792.7	1783.3	1775.1	1747.7	1729.6	1704.8	1673.1	1635.3	1596.9	1571.4
10°	1946.0	1967.2	1940.9	1922.9	1906.2	1874.8	1838.2	1792.7	1747.2	1693.9	1653.5
12.5°	2113.3	2123.6	2118.4	2101.5	2075.6	2027.7	1962.9	1912.8	1870.9	1782.2	1746.3
15°	2341.1	2380.2	2355.2	2297.4	2298.8	2253.2	2168.5	2075.6	2026.2	1948.5	1842.8
17.5°	2583.8	2588.7	2578.0	2529.9	2497.8	2435.2	2357.1	2267.9	2167.9	2074.0	1961.8
20°	2713.1	2709.2	2686.8	2661.7	2606.6	2557.9	2472.6	2373.1	2244.9	2152.5	2030.0
22.5°	2784.9	2778.5	2767.9	2746.9	2701.0	2648.7	2572.1	2463.4	2341.4	2214.1	2072.6
25°	2778.5	2786.8	2788.1	2782.4	2766.4	2734.9	2674.6	2588.0	2466.2	2302.6	2155.1
27.5°	2527.1	2538.9	2573.1	2603.6	2637.5	2672.2	2667.6	2624.6	2534.4	2393.1	2212.8
30°	2275.7	2250.0	2313.5	2393.7	2448.2	2544.4	2598.3	2601.5	2550.8	2429.6	2253.8
32.5°	1926.7	1954.9	1983.0	2081.7	2200.8	2308.9	2416.1	2502.5	2512.3	2431.7	2277.9
35°	1497.0	1532.3	1583.6	1634.9	1763.2	1873.5	2062.1	2226.3	2357.1	2374.5	2280.1
37.5°	1206.4	1223.8	1256.2	1307.7	1391.6	1522.4	1668.3	1875.8	2065.4	2206.4	2212.5
40°	1054.4	1059.6	1096.2	1135.3	1203.2	1311.0	1442.5	1625.9	1852.9	2049.9	2132.0
42.5°	940.6	951.8	967.3	1004.9	1059.0	1140.1	1262.3	1414.0	1622.1	1848.7	2009.3
45°	808.1	821.0	830.6	855.6	894.1	948.6	1034.0	1172.4	1330.9	1565.0	1781.1
47.5°	720.7	721.7	728.9	747.7	773.9	814.8	875.2	964.1	1109.6	1299.5	1521.4
50°	658.1	668.4	670.9	685.6	706.2	736.3	786.4	862.0	981.4	1148.1	1352.1
52.5°	614.0	617.0	624.2	634.9	652.8	676.3	719.6	778.9	872.5	1014.6	1202.2
55°	549.0	549.0	556.1	564.4	574.7	595.9	624.7	668.4	739.5	849.9	1005.0
57.5°	489.0	492.2	497.2	499.7	508.5	522.5	546.6	579.7	632.8	717.7	841.1
60°	448.9	454.8	454.1	459.2	466.9	477.9	498.3	525.3	572.8	640.7	744.7
62.5°	414.1	413.7	413.6	419.7	427.4	437.8	451.2	474.5	514.8	575.0	663.5
65°	356.7	355.3	359.9	363.6	366.3	373.9	384.2	404.7	431.7	476.5	545.2
67.5°	305.6	301.8	304.3	305.6	309.9	315.9	325.6	338.3	359.7	395.8	447.4
70°	270.7	267.5	266.8	268.1	271.9	276.4	283.5	295.7	315.6	344.4	382.3
72.5°	234.8	232.5	232.4	235.3	237.0	240.0	245.0	256.2	271.9	293.6	328.9
75°	183.4	183.4	183.4	184.1	186.0	188.6	192.4	198.2	210.4	225.7	249.5
77.5°	137.5	137.4	136.6	136.5	139.3	140.4	141.4	146.8	153.5	163.9	181.3
80°	107.7	104.5	105.8	107.7	109.1	109.7	111.6	112.9	118.7	124.4	136.6
82.5°	80.0	77.4	77.6	80.6	80.8	81.4	83.4	85.2	87.4	92.7	99.2
85°	42.3	42.3	43.0	43.0	43.6	43.0	44.9	45.5	45.5	48.7	52.6
87.5°	22.0	20.8	21.3	21.7	21.0	21.4	21.8	22.1	22.3	22.7	22.6
90°	32.9	32.3	31.9	31.4	30.9	30.2	29.2	28.3	27.2	26.3	23.1
92.5°	44.2	44.5	44.9	45.1	45.4	45.1	44.4	43.6	42.8	42.0	40.2
95°	85.4	85.4	85.4	85.4	85.4	84.9	84.0	82.9	82.0	81.1	79.1
97.5°	131.4	131.5	131.6	131.7	131.8	131.3	130.2	129.0	127.9	126.8	125.4
100°	166.5	166.0	165.5	165.0	164.5	163.9	163.2	162.4	161.7	161.0	159.8
102.5°	202.4	202.5	202.6	202.6	202.7	202.5	201.7	201.0	200.3	199.5	197.9
105°	260.6	260.1	259.7	259.2	258.7	258.4	258.4	258.4	258.4	258.4	256.3
107.5°	321.3	321.6	321.9	322.2	322.4	322.3	321.5	320.7	319.9	319.1	318.2
110°	362.5	363.0	363.4	363.9	364.4	364.2	363.3	362.2	361.3	360.3	359.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	406.3	406.4	406.5	406.6	406.7	406.1	405.0	403.8	402.7	401.4	401.3
115°	466.6	466.7	467.0	467.2	467.5	467.5	467.2	467.0	466.7	466.6	467.0
117.5°	527.6	528.3	529.0	529.7	530.4	530.7	530.7	530.8	530.8	530.9	531.6
120°	570.5	571.1	571.6	572.0	572.5	572.9	573.2	573.3	573.6	573.8	575.0
122.5°	611.7	612.4	613.1	613.8	614.4	615.1	615.8	616.4	617.0	617.6	618.3
125°	673.5	674.5	675.4	676.5	677.4	678.3	679.4	680.3	681.3	682.3	682.8
127.5°	735.1	736.1	737.3	738.4	739.5	740.7	742.2	743.5	744.9	746.2	746.8
130°	775.3	777.0	778.7	780.4	782.1	783.5	784.5	785.4	786.5	787.4	788.2
132.5°	817.4	818.7	820.0	821.3	822.7	823.9	825.1	826.2	827.4	828.6	829.1
135°	882.7	883.2	883.6	884.1	884.6	885.3	886.3	887.3	888.3	889.2	889.5
137.5°	940.3	941.2	942.2	943.0	944.0	944.9	945.9	947.0	948.0	949.0	948.4
140°	978.0	979.7	981.4	983.1	984.8	985.7	986.0	986.2	986.5	986.7	986.5
142.5°	1016.5	1017.9	1019.1	1020.4	1021.7	1022.6	1022.8	1023.0	1023.2	1023.5	1023.0
145°	1072.1	1073.1	1074.0	1075.1	1076.0	1076.7	1076.9	1077.1	1077.3	1077.6	1076.9
147.5°	1121.6	1123.0	1124.5	1126.0	1127.5	1128.2	1128.2	1128.2	1128.2	1128.2	1127.5
150°	1153.2	1154.6	1156.1	1157.5	1159.0	1159.7	1159.7	1159.7	1159.7	1159.7	1159.2
152.5°	1183.8	1185.1	1186.4	1187.6	1188.9	1189.3	1188.9	1188.5	1188.2	1187.8	1187.5
155°	1225.4	1227.2	1228.9	1230.6	1232.3	1232.7	1231.6	1230.7	1229.7	1228.7	1228.5
157.5°	1263.3	1264.7	1266.0	1267.4	1268.8	1268.9	1267.9	1266.9	1265.9	1264.9	1264.7
160°	1287.9	1288.8	1289.8	1290.8	1291.8	1291.7	1290.4	1289.2	1288.0	1286.8	1286.8
162.5°	1306.3	1307.8	1309.4	1310.9	1312.5	1312.7	1311.5	1310.2	1309.0	1307.8	1307.6
165°	1332.8	1334.5	1336.1	1337.8	1339.5	1339.7	1338.2	1336.8	1335.3	1333.9	1333.9
167.5°	1355.3	1356.8	1358.3	1359.8	1361.3	1361.3	1359.8	1358.3	1356.8	1355.3	1355.1
170°	1366.7	1368.4	1370.1	1371.9	1373.6	1373.6	1371.9	1370.1	1368.4	1366.7	1366.7
172.5°	1375.5	1377.1	1378.8	1380.5	1382.3	1382.4	1380.9	1379.4	1377.9	1376.4	1376.4
175°	1385.3	1387.0	1388.7	1390.4	1392.1	1392.2	1390.8	1389.3	1387.9	1386.4	1386.4
177.5°	1390.6	1391.9	1393.3	1394.7	1396.0	1396.1	1395.0	1393.8	1392.6	1391.5	1391.5
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1364.9	1360.7	1356.7	1349.5	1343.3	1334.6	1332.0	1329.0	1319.7	1311.5	1305.3
5°	1448.2	1432.9	1410.4	1389.9	1373.2	1350.8	1337.9	1324.5	1305.2	1287.9	1273.8
7.5°	1535.5	1505.2	1470.4	1432.6	1397.5	1363.6	1336.2	1311.9	1285.0	1259.4	1239.5
10°	1604.8	1561.1	1512.4	1459.8	1414.9	1371.3	1334.7	1302.7	1268.0	1237.8	1212.9
12.5°	1683.8	1619.1	1551.9	1488.0	1434.9	1374.4	1330.1	1289.3	1250.1	1213.8	1185.7
15°	1777.3	1695.2	1615.7	1527.8	1447.0	1371.3	1318.7	1267.4	1221.8	1184.7	1148.8
17.5°	1862.5	1769.4	1664.6	1557.8	1460.3	1370.6	1296.9	1238.9	1181.9	1136.4	1100.6
20°	1910.7	1804.9	1686.2	1575.3	1467.5	1367.4	1286.7	1217.4	1155.7	1107.7	1067.2
22.5°	1952.3	1828.4	1705.7	1587.1	1467.0	1359.2	1267.6	1196.4	1129.6	1082.5	1039.5
25°	1995.4	1847.2	1724.1	1584.9	1450.9	1339.3	1236.6	1155.7	1089.1	1034.0	989.7
27.5°	2032.3	1846.0	1699.8	1550.1	1425.4	1313.5	1204.0	1117.3	1046.5	986.6	941.7
30°	2056.9	1848.5	1674.7	1526.5	1400.8	1285.3	1178.8	1091.7	1017.3	956.3	914.0
32.5°	2072.4	1846.9	1651.6	1493.6	1361.8	1259.7	1151.7	1061.4	985.0	925.0	884.2
35°	2081.3	1835.7	1611.8	1425.8	1298.8	1199.4	1109.0	1015.3	935.2	879.4	833.2
37.5°	2063.3	1811.9	1565.7	1360.4	1221.3	1123.4	1047.4	967.6	890.9	829.4	789.7
40°	2035.1	1796.6	1529.7	1314.2	1168.0	1073.7	1008.9	930.7	855.0	796.6	759.4
42.5°	1981.2	1765.2	1490.3	1262.9	1112.6	1018.2	958.7	893.2	821.6	766.9	729.6
45°	1849.7	1697.1	1431.0	1185.9	1030.7	933.2	880.6	833.2	768.4	715.1	683.1
47.5°	1667.4	1594.6	1345.3	1104.8	945.3	851.5	796.8	758.7	711.3	668.4	637.5
50°	1540.6	1510.5	1287.2	1049.3	888.3	796.6	744.0	709.4	675.4	632.4	604.2
52.5°	1394.4	1413.0	1219.6	991.8	830.4	740.2	690.7	663.2	632.3	597.0	572.4
55°	1188.5	1255.8	1102.6	895.4	744.0	658.1	611.2	586.8	568.9	542.6	521.4
57.5°	995.7	1081.4	976.1	796.0	659.2	585.0	540.2	513.6	502.1	488.3	471.6
60°	881.3	965.9	885.8	729.2	602.3	531.7	491.9	469.5	458.0	448.4	434.2
62.5°	779.2	864.9	797.5	661.6	546.3	480.9	446.3	424.3	415.4	410.4	398.3
65°	638.9	712.6	667.7	556.1	466.3	408.6	377.1	361.7	353.5	351.5	343.7
67.5°	519.9	576.1	543.4	461.3	390.6	340.7	314.1	301.0	294.5	293.9	288.1
70°	442.0	494.6	469.5	395.1	334.1	295.0	271.9	260.4	256.6	255.9	252.7
72.5°	381.4	418.0	398.1	336.1	289.0	253.4	236.6	224.5	220.1	221.0	218.9
75°	282.2	309.8	298.2	255.2	217.4	194.4	180.2	172.6	168.7	170.6	168.1
77.5°	203.0	220.6	210.1	180.4	157.0	140.3	130.0	125.2	121.8	121.6	120.5
80°	153.3	163.5	157.8	139.8	120.6	106.5	98.1	94.9	93.0	92.4	91.7
82.5°	109.1	117.9	111.1	98.8	85.7	77.2	72.5	68.2	66.8	67.2	66.5
85°	55.1	58.3	55.8	48.1	43.0	39.1	36.6	34.6	33.4	34.0	32.7
87.5°	23.0	22.9	20.6	18.1	16.6	14.5	14.0	12.5	12.0	12.4	12.4
90°	20.0	16.8	13.7	10.8	8.4	5.9	3.5	1.1	3.5	5.9	8.4
92.5°	38.5	36.7	34.9	33.1	31.5	29.8	28.2	26.5	28.2	29.8	31.5
95°	77.1	75.2	73.2	71.4	69.7	68.1	66.4	64.7	66.4	68.1	69.7
97.5°	124.0	122.6	121.2	119.8	118.6	117.3	116.0	114.8	116.0	117.3	118.6
100°	158.5	157.3	156.1	154.8	153.4	151.8	150.4	148.9	150.4	151.8	153.4
102.5°	196.3	194.7	193.1	191.9	191.0	190.1	189.3	188.3	189.3	190.1	191.0
105°	254.1	251.8	249.7	248.4	247.9	247.4	246.9	246.4	246.9	247.4	247.9
107.5°	317.4	316.5	315.7	315.0	314.7	314.4	314.1	313.9	314.1	314.4	314.7
110°	359.3	358.8	358.4	357.9	357.4	356.8	356.4	355.9	356.4	356.8	357.4





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CATALOG NUMBER: S123DIP-S1000D1195U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	401.2	401.1	401.1	400.9	400.6	400.3	400.0	399.7	400.0	400.3	400.6
115°	467.5	468.0	468.4	468.3	467.6	466.8	466.2	465.4	466.2	466.8	467.6
117.5°	532.2	532.8	533.5	533.5	533.0	532.5	532.1	531.6	532.1	532.5	533.0
120°	576.3	577.5	578.7	578.6	577.1	575.7	574.2	572.8	574.2	575.7	577.1
122.5°	618.9	619.5	620.2	620.0	618.9	617.8	616.7	615.7	616.7	617.8	618.9
125°	683.2	683.7	684.2	684.1	683.3	682.6	681.9	681.2	681.9	682.6	683.3
127.5°	747.2	747.8	748.4	747.8	746.3	744.7	743.2	741.6	743.2	744.7	746.3
130°	788.8	789.6	790.3	789.7	787.8	785.8	783.8	781.9	783.8	785.8	787.8
132.5°	829.6	830.2	830.8	830.0	828.0	826.1	824.2	822.2	824.2	826.1	828.0
135°	889.8	889.9	890.2	889.6	888.2	886.6	885.2	883.7	885.2	886.6	888.2
137.5°	947.7	947.2	946.5	945.6	944.3	943.1	941.9	940.8	941.9	943.1	944.3
140°	986.2	986.0	985.7	985.0	983.8	982.6	981.4	980.1	981.4	982.6	983.8
142.5°	1022.7	1022.2	1021.7	1021.0	1019.7	1018.5	1017.3	1016.1	1017.3	1018.5	1019.7
145°	1076.1	1075.4	1074.7	1074.0	1073.6	1073.1	1072.6	1072.1	1072.6	1073.1	1073.6
147.5°	1126.8	1126.1	1125.5	1124.7	1123.8	1122.9	1122.1	1121.2	1122.1	1122.9	1123.8
150°	1158.8	1158.3	1157.8	1157.3	1156.8	1156.3	1155.8	1155.4	1155.8	1156.3	1156.8
152.5°	1187.2	1186.8	1186.6	1186.1	1185.4	1184.8	1184.1	1183.4	1184.1	1184.8	1185.4
155°	1228.2	1228.0	1227.8	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7
157.5°	1264.5	1264.3	1264.0	1264.1	1264.4	1264.7	1265.0	1265.3	1265.0	1264.7	1264.4
160°	1286.8	1286.8	1286.8	1287.0	1287.5	1288.0	1288.5	1288.9	1288.5	1288.0	1287.5
162.5°	1307.4	1307.2	1307.0	1307.3	1308.0	1308.6	1309.3	1309.9	1309.3	1308.6	1308.0
165°	1333.9	1333.9	1333.9	1334.3	1334.9	1335.7	1336.4	1337.2	1336.4	1335.7	1334.9
167.5°	1354.9	1354.7	1354.5	1354.9	1355.9	1356.9	1357.8	1358.9	1357.8	1356.9	1355.9
170°	1366.7	1366.7	1366.7	1367.2	1368.2	1369.1	1370.1	1371.1	1370.1	1369.1	1368.2
172.5°	1376.4	1376.4	1376.4	1376.9	1377.8	1378.8	1379.8	1380.7	1379.8	1378.8	1377.8
175°	1386.4	1386.4	1386.4	1387.0	1387.9	1388.8	1389.9	1390.8	1389.9	1388.8	1387.9
177.5°	1391.5	1391.5	1391.5	1391.9	1392.6	1393.5	1394.2	1395.0	1394.2	1393.5	1392.6
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1301.7	1298.2	1293.1	1285.3	1279.2	1269.4	1269.4	1271.0	1271.0	1270.5	1269.4
5°	1262.3	1252.6	1241.1	1227.7	1213.5	1199.4	1196.8	1191.8	1187.9	1185.2	1182.0
7.5°	1220.6	1203.5	1186.7	1167.8	1150.7	1136.4	1126.5	1118.3	1113.0	1107.4	1103.3
10°	1192.3	1171.2	1151.3	1131.4	1109.6	1092.3	1081.4	1073.7	1067.9	1062.8	1060.3
12.5°	1159.0	1134.7	1112.9	1093.9	1070.1	1052.3	1041.9	1038.3	1031.5	1020.7	1015.0
15°	1110.2	1087.8	1061.5	1032.6	1021.1	999.3	987.1	981.4	977.5	969.1	966.6
17.5°	1068.6	1039.2	1009.7	988.2	966.7	949.0	942.2	935.0	929.9	923.1	921.1
20°	1035.2	1008.9	981.9	958.8	936.4	917.2	911.4	906.3	901.2	898.0	895.4
22.5°	1001.4	975.1	952.7	931.1	907.2	894.6	888.3	882.7	879.1	876.9	874.3
25°	953.8	930.7	905.7	886.4	867.1	858.8	855.0	851.8	849.2	846.0	845.4
27.5°	911.2	886.0	865.7	847.8	834.0	827.0	823.3	821.7	822.3	823.4	824.2
30°	879.4	856.3	839.6	824.2	811.3	804.9	804.3	804.3	806.9	807.5	808.8
32.5°	850.1	831.1	814.5	799.6	789.9	785.4	787.9	787.9	789.9	791.6	793.9
35°	807.5	790.8	778.0	765.2	756.9	758.7	760.1	761.3	764.5	768.4	771.0
37.5°	766.9	752.3	739.0	729.0	725.2	728.6	731.7	734.4	738.1	741.0	743.7
40°	737.6	726.7	713.9	704.9	706.2	708.1	710.7	713.9	717.1	719.0	721.6
42.5°	710.4	699.0	689.3	681.8	683.6	686.1	687.6	689.3	693.0	696.4	698.0
45°	669.0	660.0	651.0	646.5	647.8	649.1	650.4	652.3	655.5	658.1	658.7
47.5°	622.4	616.1	610.1	605.8	607.8	607.3	609.0	613.0	614.1	615.6	619.2
50°	592.7	586.8	579.9	578.5	578.5	578.5	579.2	584.3	584.3	586.8	589.5
52.5°	559.8	556.1	551.6	549.3	548.3	548.3	550.9	553.6	554.6	558.2	560.7
55°	511.2	507.4	503.5	501.5	500.3	501.5	506.7	507.9	511.2	513.1	515.0
57.5°	460.5	457.6	454.5	453.5	453.2	454.9	457.7	461.6	462.3	468.3	471.2
60°	427.2	422.6	420.1	420.1	418.9	424.6	423.3	429.7	431.0	434.9	439.3
62.5°	392.8	386.7	385.7	385.7	387.6	389.2	391.0	393.8	397.2	402.0	405.5
65°	337.3	334.1	338.7	338.0	336.8	340.5	340.5	343.7	347.6	352.1	359.2
67.5°	284.9	283.2	283.6	283.6	285.6	287.8	289.5	292.4	297.0	301.7	306.3
70°	249.5	251.5	248.3	250.8	252.7	253.4	254.7	258.4	263.6	266.8	271.9
72.5°	215.1	215.0	215.4	216.4	218.3	219.5	220.7	225.2	230.7	233.5	237.6
75°	165.5	164.9	166.7	166.7	169.9	171.3	172.6	174.5	179.6	183.4	186.6
77.5°	120.8	121.6	121.2	123.4	122.5	122.7	126.8	128.7	129.2	136.8	138.5
80°	91.0	92.4	93.0	93.7	94.3	93.0	97.5	99.4	99.4	103.9	107.1
82.5°	65.4	66.2	67.9	68.5	68.6	69.9	70.3	71.7	73.2	75.2	79.4
85°	32.7	34.6	35.3	34.6	35.3	34.0	35.9	36.6	37.2	37.2	37.2
87.5°	12.4	13.5	13.7	14.8	14.9	16.0	16.2	15.4	15.6	17.3	15.5
90°	10.8	13.7	16.8	20.0	23.1	26.3	27.2	28.3	29.2	30.2	30.9
92.5°	33.1	34.9	36.7	38.5	40.2	42.0	42.8	43.6	44.4	45.1	45.4
95°	71.4	73.2	75.2	77.1	79.1	81.1	82.0	82.9	84.0	84.9	85.4
97.5°	119.8	121.2	122.6	124.0	125.4	126.8	127.9	129.0	130.2	131.3	131.8
100°	154.8	156.1	157.3	158.5	159.8	161.0	161.7	162.4	163.2	163.9	164.5
102.5°	191.9	193.1	194.7	196.3	197.9	199.5	200.3	201.0	201.7	202.5	202.7
105°	248.4	249.7	251.8	254.1	256.3	258.4	258.4	258.4	258.4	258.4	258.7
107.5°	315.0	315.7	316.5	317.4	318.2	319.1	319.9	320.7	321.5	322.3	322.4
110°	357.9	358.4	358.8	359.3	359.8	360.3	361.3	362.2	363.3	364.2	364.4



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CATALOG NUMBER: S123DIP-S1000D1195U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	400.9	401.1	401.1	401.2	401.3	401.4	402.7	403.8	405.0	406.1	406.7
115°	468.3	468.4	468.0	467.5	467.0	466.6	466.7	467.0	467.2	467.5	467.5
117.5°	533.5	533.5	532.8	532.2	531.6	530.9	530.8	530.8	530.7	530.7	530.4
120°	578.6	578.7	577.5	576.3	575.0	573.8	573.6	573.3	573.2	572.9	572.5
122.5°	620.0	620.2	619.5	618.9	618.3	617.6	617.0	616.4	615.8	615.1	614.4
125°	684.1	684.2	683.7	683.2	682.8	682.3	681.3	680.3	679.4	678.3	677.4
127.5°	747.8	748.4	747.8	747.2	746.8	746.2	744.9	743.5	742.2	740.7	739.5
130°	789.7	790.3	789.6	788.8	788.2	787.4	786.5	785.4	784.5	783.5	782.1
132.5°	830.0	830.8	830.2	829.6	829.1	828.6	827.4	826.2	825.1	823.9	822.7
135°	889.6	890.2	889.9	889.8	889.5	889.2	888.3	887.3	886.3	885.3	884.6
137.5°	945.6	946.5	947.2	947.7	948.4	949.0	948.0	947.0	945.9	944.9	944.0
140°	985.0	985.7	986.0	986.2	986.5	986.7	986.5	986.2	986.0	985.7	984.8
142.5°	1021.0	1021.7	1022.2	1022.7	1023.0	1023.5	1023.2	1023.0	1022.8	1022.6	1021.7
145°	1074.0	1074.7	1075.4	1076.1	1076.9	1077.6	1077.3	1077.1	1076.9	1076.7	1076.0
147.5°	1124.7	1125.5	1126.1	1126.8	1127.5	1128.2	1128.2	1128.2	1128.2	1128.2	1127.5
150°	1157.3	1157.8	1158.3	1158.8	1159.2	1159.7	1159.7	1159.7	1159.7	1159.7	1159.0
152.5°	1186.1	1186.6	1186.8	1187.2	1187.5	1187.8	1188.2	1188.5	1188.9	1189.3	1188.9
155°	1227.7	1227.8	1228.0	1228.2	1228.5	1228.7	1229.7	1230.7	1231.6	1232.7	1232.3
157.5°	1264.1	1264.0	1264.3	1264.5	1264.7	1264.9	1265.9	1266.9	1267.9	1268.9	1268.8
160°	1287.0	1286.8	1286.8	1286.8	1286.8	1286.8	1288.0	1289.2	1290.4	1291.7	1291.8
162.5°	1307.3	1307.0	1307.2	1307.4	1307.6	1307.8	1309.0	1310.2	1311.5	1312.7	1312.5
165°	1334.3	1333.9	1333.9	1333.9	1333.9	1333.9	1335.3	1336.8	1338.2	1339.7	1339.5
167.5°	1354.9	1354.5	1354.7	1354.9	1355.1	1355.3	1356.8	1358.3	1359.8	1361.3	1361.3
170°	1367.2	1366.7	1366.7	1366.7	1366.7	1366.7	1368.4	1370.1	1371.9	1373.6	1373.6
172.5°	1376.9	1376.4	1376.4	1376.4	1376.4	1376.4	1377.9	1379.4	1380.9	1382.4	1382.3
175°	1387.0	1386.4	1386.4	1386.4	1386.4	1386.4	1387.9	1389.3	1390.8	1392.2	1392.1
177.5°	1391.9	1391.5	1391.5	1391.5	1391.5	1391.5	1392.6	1393.8	1395.0	1396.1	1396.0
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P332037-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1265.8	1265.4	1268.9	1266.4	1268.9	1265.4	1265.8	1269.4	1270.5	1271.0	1271.0
5°	1178.3	1180.2	1173.7	1173.7	1173.7	1180.2	1178.3	1182.0	1185.2	1187.9	1191.8
7.5°	1100.2	1097.4	1097.7	1094.2	1097.7	1097.4	1100.2	1103.3	1107.4	1113.0	1118.3
10°	1052.5	1048.7	1047.4	1048.0	1047.4	1048.7	1052.5	1060.3	1062.8	1067.9	1073.7
12.5°	1013.0	1012.3	1003.8	1003.9	1003.8	1012.3	1013.0	1015.0	1020.7	1031.5	1038.3
15°	966.6	954.4	953.1	957.0	953.1	954.4	966.6	966.6	969.1	977.5	981.4
17.5°	920.0	913.6	914.0	912.1	914.0	913.6	920.0	921.1	923.1	929.9	935.0
20°	895.4	891.6	890.9	886.4	890.9	891.6	895.4	895.4	898.0	901.2	906.3
22.5°	872.8	871.6	871.9	867.0	871.9	871.6	872.8	874.3	876.9	879.1	882.7
25°	844.7	847.9	845.4	845.4	845.4	847.9	844.7	845.4	846.0	849.2	851.8
27.5°	825.8	825.6	824.3	824.3	824.3	825.6	825.8	824.2	823.4	822.3	821.7
30°	811.3	810.7	812.0	812.0	812.0	810.7	811.3	808.8	807.5	806.9	804.3
32.5°	797.0	797.9	798.1	798.6	798.1	797.9	797.0	793.9	791.6	789.9	787.9
35°	774.8	775.4	777.4	776.1	777.4	775.4	774.8	771.0	768.4	764.5	761.3
37.5°	744.8	747.7	747.1	748.1	747.1	747.7	744.8	743.7	741.0	738.1	734.4
40°	722.2	724.2	723.5	723.5	723.5	724.2	722.2	721.6	719.0	717.1	713.9
42.5°	699.1	700.5	698.9	697.9	698.9	700.5	699.1	698.0	696.4	693.0	689.3
45°	661.3	660.0	661.9	659.3	661.9	660.0	661.3	658.7	658.1	655.5	652.3
47.5°	619.0	620.2	620.8	622.6	620.8	620.2	619.0	619.2	615.6	614.1	613.0
50°	590.7	594.6	594.6	593.9	594.6	594.6	590.7	589.5	586.8	584.3	584.3
52.5°	563.0	564.8	567.4	567.2	567.4	564.8	563.0	560.7	558.2	554.6	553.6
55°	520.2	521.4	522.7	523.4	522.7	521.4	520.2	515.0	513.1	511.2	507.9
57.5°	475.8	475.2	478.3	479.3	478.3	475.2	475.8	471.2	468.3	462.3	461.6
60°	444.5	444.5	449.6	451.6	449.6	444.5	444.5	439.3	434.9	431.0	429.7
62.5°	411.1	413.2	418.3	415.7	418.3	413.2	411.1	405.5	402.0	397.2	393.8
65°	362.4	367.5	366.8	369.5	366.8	367.5	362.4	359.2	352.1	347.6	343.7
67.5°	311.4	314.6	319.2	319.7	319.2	314.6	311.4	306.3	301.7	297.0	292.4
70°	277.1	280.3	282.9	284.7	282.9	280.3	277.1	271.9	266.8	263.6	258.4
72.5°	243.7	245.4	251.6	248.8	251.6	245.4	243.7	237.6	233.5	230.7	225.2
75°	191.1	195.6	199.4	197.6	199.4	195.6	191.1	186.6	183.4	179.6	174.5
77.5°	141.4	145.8	147.6	146.0	147.6	145.8	141.4	138.5	136.8	129.2	128.7
80°	111.6	110.9	114.8	114.1	114.8	110.9	111.6	107.1	103.9	99.4	99.4
82.5°	81.8	81.2	83.0	83.4	83.0	81.2	81.8	79.4	75.2	73.2	71.7
85°	39.8	41.7	39.1	38.5	39.1	41.7	39.8	37.2	37.2	37.2	36.6
87.5°	15.6	15.6	15.2	14.8	15.2	15.6	15.6	15.5	17.3	15.6	15.4
90°	31.4	31.9	32.3	32.9	32.3	31.9	31.4	30.9	30.2	29.2	28.3
92.5°	45.1	44.9	44.5	44.2	44.5	44.9	45.1	45.4	45.1	44.4	43.6
95°	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	84.9	84.0	82.9
97.5°	131.7	131.6	131.5	131.4	131.5	131.6	131.7	131.8	131.3	130.2	129.0
100°	165.0	165.5	166.0	166.5	166.0	165.5	165.0	164.5	163.9	163.2	162.4
102.5°	202.6	202.6	202.5	202.4	202.5	202.6	202.6	202.7	202.5	201.7	201.0
105°	259.2	259.7	260.1	260.6	260.1	259.7	259.2	258.7	258.4	258.4	258.4
107.5°	322.2	321.9	321.6	321.3	321.6	321.9	322.2	322.4	322.3	321.5	320.7
110°	363.9	363.4	363.0	362.5	363.0	363.4	363.9	364.4	364.2	363.3	362.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	406.6	406.5	406.4	406.3	406.4	406.5	406.6	406.7	406.1	405.0	403.8
115°	467.2	467.0	466.7	466.6	466.7	467.0	467.2	467.5	467.5	467.2	467.0
117.5°	529.7	529.0	528.3	527.6	528.3	529.0	529.7	530.4	530.7	530.7	530.8
120°	572.0	571.6	571.1	570.5	571.1	571.6	572.0	572.5	572.9	573.2	573.3
122.5°	613.8	613.1	612.4	611.7	612.4	613.1	613.8	614.4	615.1	615.8	616.4
125°	676.5	675.4	674.5	673.5	674.5	675.4	676.5	677.4	678.3	679.4	680.3
127.5°	738.4	737.3	736.1	735.1	736.1	737.3	738.4	739.5	740.7	742.2	743.5
130°	780.4	778.7	777.0	775.3	777.0	778.7	780.4	782.1	783.5	784.5	785.4
132.5°	821.3	820.0	818.7	817.4	818.7	820.0	821.3	822.7	823.9	825.1	826.2
135°	884.1	883.6	883.2	882.7	883.2	883.6	884.1	884.6	885.3	886.3	887.3
137.5°	943.0	942.2	941.2	940.3	941.2	942.2	943.0	944.0	944.9	945.9	947.0
140°	983.1	981.4	979.7	978.0	979.7	981.4	983.1	984.8	985.7	986.0	986.2
142.5°	1020.4	1019.1	1017.9	1016.5	1017.9	1019.1	1020.4	1021.7	1022.6	1022.8	1023.0
145°	1075.1	1074.0	1073.1	1072.1	1073.1	1074.0	1075.1	1076.0	1076.7	1076.9	1077.1
147.5°	1126.0	1124.5	1123.0	1121.6	1123.0	1124.5	1126.0	1127.5	1128.2	1128.2	1128.2
150°	1157.5	1156.1	1154.6	1153.2	1154.6	1156.1	1157.5	1159.0	1159.7	1159.7	1159.7
152.5°	1187.6	1186.4	1185.1	1183.8	1185.1	1186.4	1187.6	1188.9	1189.3	1188.9	1188.5
155°	1230.6	1228.9	1227.2	1225.4	1227.2	1228.9	1230.6	1232.3	1232.7	1231.6	1230.7
157.5°	1267.4	1266.0	1264.7	1263.3	1264.7	1266.0	1267.4	1268.8	1268.9	1267.9	1266.9
160°	1290.8	1289.8	1288.8	1287.9	1288.8	1289.8	1290.8	1291.8	1291.7	1290.4	1289.2
162.5°	1310.9	1309.4	1307.8	1306.3	1307.8	1309.4	1310.9	1312.5	1312.7	1311.5	1310.2
165°	1337.8	1336.1	1334.5	1332.8	1334.5	1336.1	1337.8	1339.5	1339.7	1338.2	1336.8
167.5°	1359.8	1358.3	1356.8	1355.3	1356.8	1358.3	1359.8	1361.3	1361.3	1359.8	1358.3
170°	1371.9	1370.1	1368.4	1366.7	1368.4	1370.1	1371.9	1373.6	1373.6	1371.9	1370.1
172.5°	1380.5	1378.8	1377.1	1375.5	1377.1	1378.8	1380.5	1382.3	1382.4	1380.9	1379.4
175°	1390.4	1388.7	1387.0	1385.3	1387.0	1388.7	1390.4	1392.1	1392.2	1390.8	1389.3
177.5°	1394.7	1393.3	1391.9	1390.6	1391.9	1393.3	1394.7	1396.0	1396.1	1395.0	1393.8
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1269.4	1269.4	1279.2	1285.3	1293.1	1298.2	1301.7	1305.3	1311.5	1319.7	1329.0
5°	1196.8	1199.4	1213.5	1227.7	1241.1	1252.6	1262.3	1273.8	1287.9	1305.2	1324.5
7.5°	1126.5	1136.4	1150.7	1167.8	1186.7	1203.5	1220.6	1239.5	1259.4	1285.0	1311.9
10°	1081.4	1092.3	1109.6	1131.4	1151.3	1171.2	1192.3	1212.9	1237.8	1268.0	1302.7
12.5°	1041.9	1052.3	1070.1	1093.9	1112.9	1134.7	1159.0	1185.7	1213.8	1250.1	1289.3
15°	987.1	999.3	1021.1	1032.6	1061.5	1087.8	1110.2	1148.8	1184.7	1221.8	1267.4
17.5°	942.2	949.0	966.7	988.2	1009.7	1039.2	1068.6	1100.6	1136.4	1181.9	1238.9
20°	911.4	917.2	936.4	958.8	981.9	1008.9	1035.2	1067.2	1107.7	1155.7	1217.4
22.5°	888.3	894.6	907.2	931.1	952.7	975.1	1001.4	1039.5	1082.5	1129.6	1196.4
25°	855.0	858.8	867.1	886.4	905.7	930.7	953.8	989.7	1034.0	1089.1	1155.7
27.5°	823.3	827.0	834.0	847.8	865.7	886.0	911.2	941.7	986.6	1046.5	1117.3
30°	804.3	804.9	811.3	824.2	839.6	856.3	879.4	914.0	956.3	1017.3	1091.7
32.5°	787.9	785.4	789.9	799.6	814.5	831.1	850.1	884.2	925.0	985.0	1061.4
35°	760.1	758.7	756.9	765.2	778.0	790.8	807.5	833.2	879.4	935.2	1015.3
37.5°	731.7	728.6	725.2	729.0	739.0	752.3	766.9	789.7	829.4	890.9	967.6
40°	710.7	708.1	706.2	704.9	713.9	726.7	737.6	759.4	796.6	855.0	930.7
42.5°	687.6	686.1	683.6	681.8	689.3	699.0	710.4	729.6	766.9	821.6	893.2
45°	650.4	649.1	647.8	646.5	651.0	660.0	669.0	683.1	715.1	768.4	833.2
47.5°	609.0	607.3	607.8	605.8	610.1	616.1	622.4	637.5	668.4	711.3	758.7
50°	579.2	578.5	578.5	578.5	579.9	586.8	592.7	604.2	632.4	675.4	709.4
52.5°	550.9	548.3	548.3	549.3	551.6	556.1	559.8	572.4	597.0	632.3	663.2
55°	506.7	501.5	500.3	501.5	503.5	507.4	511.2	521.4	542.6	568.9	586.8
57.5°	457.7	454.9	453.2	453.5	454.5	457.6	460.5	471.6	488.3	502.1	513.6
60°	423.3	424.6	418.9	420.1	420.1	422.6	427.2	434.2	448.4	458.0	469.5
62.5°	391.0	389.2	387.6	385.7	385.7	386.7	392.8	398.3	410.4	415.4	424.3
65°	340.5	340.5	336.8	338.0	338.7	334.1	337.3	343.7	351.5	353.5	361.7
67.5°	289.5	287.8	285.6	283.6	283.6	283.2	284.9	288.1	293.9	294.5	301.0
70°	254.7	253.4	252.7	250.8	248.3	251.5	249.5	252.7	255.9	256.6	260.4
72.5°	220.7	219.5	218.3	216.4	215.4	215.0	215.1	218.9	221.0	220.1	224.5
75°	172.6	171.3	169.9	166.7	166.7	164.9	165.5	168.1	170.6	168.7	172.6
77.5°	126.8	122.7	122.5	123.4	121.2	121.6	120.8	120.5	121.6	121.8	125.2
80°	97.5	93.0	94.3	93.7	93.0	92.4	91.0	91.7	92.4	93.0	94.9
82.5°	70.3	69.9	68.6	68.5	67.9	66.2	65.4	66.5	67.2	66.8	68.2
85°	35.9	34.0	35.3	34.6	35.3	34.6	32.7	32.7	34.0	33.4	34.6
87.5°	16.2	16.0	14.9	14.8	13.7	13.5	12.4	12.4	12.4	12.0	12.5
90°	27.2	26.3	23.1	20.0	16.8	13.7	10.8	8.4	5.9	3.5	1.1
92.5°	42.8	42.0	40.2	38.5	36.7	34.9	33.1	31.5	29.8	28.2	26.5
95°	82.0	81.1	79.1	77.1	75.2	73.2	71.4	69.7	68.1	66.4	64.7
97.5°	127.9	126.8	125.4	124.0	122.6	121.2	119.8	118.6	117.3	116.0	114.8
100°	161.7	161.0	159.8	158.5	157.3	156.1	154.8	153.4	151.8	150.4	148.9
102.5°	200.3	199.5	197.9	196.3	194.7	193.1	191.9	191.0	190.1	189.3	188.3
105°	258.4	258.4	256.3	254.1	251.8	249.7	248.4	247.9	247.4	246.9	246.4
107.5°	319.9	319.1	318.2	317.4	316.5	315.7	315.0	314.7	314.4	314.1	313.9
110°	361.3	360.3	359.8	359.3	358.8	358.4	357.9	357.4	356.8	356.4	355.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	402.7	401.4	401.3	401.2	401.1	401.1	400.9	400.6	400.3	400.0	399.7
115°	466.7	466.6	467.0	467.5	468.0	468.4	468.3	467.6	466.8	466.2	465.4
117.5°	530.8	530.9	531.6	532.2	532.8	533.5	533.5	533.0	532.5	532.1	531.6
120°	573.6	573.8	575.0	576.3	577.5	578.7	578.6	577.1	575.7	574.2	572.8
122.5°	617.0	617.6	618.3	618.9	619.5	620.2	620.0	618.9	617.8	616.7	615.7
125°	681.3	682.3	682.8	683.2	683.7	684.2	684.1	683.3	682.6	681.9	681.2
127.5°	744.9	746.2	746.8	747.2	747.8	748.4	747.8	746.3	744.7	743.2	741.6
130°	786.5	787.4	788.2	788.8	789.6	790.3	789.7	787.8	785.8	783.8	781.9
132.5°	827.4	828.6	829.1	829.6	830.2	830.8	830.0	828.0	826.1	824.2	822.2
135°	888.3	889.2	889.5	889.8	889.9	890.2	889.6	888.2	886.6	885.2	883.7
137.5°	948.0	949.0	948.4	947.7	947.2	946.5	945.6	944.3	943.1	941.9	940.8
140°	986.5	986.7	986.5	986.2	986.0	985.7	985.0	983.8	982.6	981.4	980.1
142.5°	1023.2	1023.5	1023.0	1022.7	1022.2	1021.7	1021.0	1019.7	1018.5	1017.3	1016.1
145°	1077.3	1077.6	1076.9	1076.1	1075.4	1074.7	1074.0	1073.6	1073.1	1072.6	1072.1
147.5°	1128.2	1128.2	1127.5	1126.8	1126.1	1125.5	1124.7	1123.8	1122.9	1122.1	1121.2
150°	1159.7	1159.7	1159.2	1158.8	1158.3	1157.8	1157.3	1156.8	1156.3	1155.8	1155.4
152.5°	1188.2	1187.8	1187.5	1187.2	1186.8	1186.6	1186.1	1185.4	1184.8	1184.1	1183.4
155°	1229.7	1228.7	1228.5	1228.2	1228.0	1227.8	1227.7	1227.7	1227.7	1227.7	1227.7
157.5°	1265.9	1264.9	1264.7	1264.5	1264.3	1264.0	1264.1	1264.4	1264.7	1265.0	1265.3
160°	1288.0	1286.8	1286.8	1286.8	1286.8	1286.8	1287.0	1287.5	1288.0	1288.5	1288.9
162.5°	1309.0	1307.8	1307.6	1307.4	1307.2	1307.0	1307.3	1308.0	1308.6	1309.3	1309.9
165°	1335.3	1333.9	1333.9	1333.9	1333.9	1333.9	1334.3	1334.9	1335.7	1336.4	1337.2
167.5°	1356.8	1355.3	1355.1	1354.9	1354.7	1354.5	1354.9	1355.9	1356.9	1357.8	1358.9
170°	1368.4	1366.7	1366.7	1366.7	1366.7	1366.7	1367.2	1368.2	1369.1	1370.1	1371.1
172.5°	1377.9	1376.4	1376.4	1376.4	1376.4	1376.4	1376.9	1377.8	1378.8	1379.8	1380.7
175°	1387.9	1386.4	1386.4	1386.4	1386.4	1386.4	1387.0	1387.9	1388.8	1389.9	1390.8
177.5°	1392.6	1391.5	1391.5	1391.5	1391.5	1391.5	1391.9	1392.6	1393.5	1394.2	1395.0
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1332.0	1334.6	1343.3	1349.5	1356.7	1360.7	1364.9	1368.0	1372.1	1373.1	1388.0
5°	1337.9	1350.8	1373.2	1389.9	1410.4	1432.9	1448.2	1455.3	1473.9	1489.3	1520.1
7.5°	1336.2	1363.6	1397.5	1432.6	1470.4	1505.2	1535.5	1571.4	1596.9	1635.3	1673.1
10°	1334.7	1371.3	1414.9	1459.8	1512.4	1561.1	1604.8	1653.5	1693.9	1747.2	1792.7
12.5°	1330.1	1374.4	1434.9	1488.0	1551.9	1619.1	1683.8	1746.3	1782.2	1870.9	1912.8
15°	1318.7	1371.3	1447.0	1527.8	1615.7	1695.2	1777.3	1842.8	1948.5	2026.2	2075.6
17.5°	1296.9	1370.6	1460.3	1557.8	1664.6	1769.4	1862.5	1961.8	2074.0	2167.9	2267.9
20°	1286.7	1367.4	1467.5	1575.3	1686.2	1804.9	1910.7	2030.0	2152.5	2244.9	2373.1
22.5°	1267.6	1359.2	1467.0	1587.1	1705.7	1828.4	1952.3	2072.6	2214.1	2341.4	2463.4
25°	1236.6	1339.3	1450.9	1584.9	1724.1	1847.2	1995.4	2155.1	2302.6	2466.2	2588.0
27.5°	1204.0	1313.5	1425.4	1550.1	1699.8	1846.0	2032.3	2212.8	2393.1	2534.4	2624.6
30°	1178.8	1285.3	1400.8	1526.5	1674.7	1848.5	2056.9	2253.8	2429.6	2550.8	2601.5
32.5°	1151.7	1259.7	1361.8	1493.6	1651.6	1846.9	2072.4	2277.9	2431.7	2512.3	2502.5
35°	1109.0	1199.4	1298.8	1425.8	1611.8	1835.7	2081.3	2280.1	2374.5	2357.1	2226.3
37.5°	1047.4	1123.4	1221.3	1360.4	1565.7	1811.9	2063.3	2212.5	2206.4	2065.4	1875.8
40°	1008.9	1073.7	1168.0	1314.2	1529.7	1796.6	2035.1	2132.0	2049.9	1852.9	1625.9
42.5°	958.7	1018.2	1112.6	1262.9	1490.3	1765.2	1981.2	2009.3	1848.7	1622.1	1414.0
45°	880.6	933.2	1030.7	1185.9	1431.0	1697.1	1849.7	1781.1	1565.0	1330.9	1172.4
47.5°	796.8	851.5	945.3	1104.8	1345.3	1594.6	1667.4	1521.4	1299.5	1109.6	964.1
50°	744.0	796.6	888.3	1049.3	1287.2	1510.5	1540.6	1352.1	1148.1	981.4	862.0
52.5°	690.7	740.2	830.4	991.8	1219.6	1413.0	1394.4	1202.2	1014.6	872.5	778.9
55°	611.2	658.1	744.0	895.4	1102.6	1255.8	1188.5	1005.0	849.9	739.5	668.4
57.5°	540.2	585.0	659.2	796.0	976.1	1081.4	995.7	841.1	717.7	632.8	579.7
60°	491.9	531.7	602.3	729.2	885.8	965.9	881.3	744.7	640.7	572.8	525.3
62.5°	446.3	480.9	546.3	661.6	797.5	864.9	779.2	663.5	575.0	514.8	474.5
65°	377.1	408.6	466.3	556.1	667.7	712.6	638.9	545.2	476.5	431.7	404.7
67.5°	314.1	340.7	390.6	461.3	543.4	576.1	519.9	447.4	395.8	359.7	338.3
70°	271.9	295.0	334.1	395.1	469.5	494.6	442.0	382.3	344.4	315.6	295.7
72.5°	236.6	253.4	289.0	336.1	398.1	418.0	381.4	328.9	293.6	271.9	256.2
75°	180.2	194.4	217.4	255.2	298.2	309.8	282.2	249.5	225.7	210.4	198.2
77.5°	130.0	140.3	157.0	180.4	210.1	220.6	203.0	181.3	163.9	153.5	146.8
80°	98.1	106.5	120.6	139.8	157.8	163.5	153.3	136.6	124.4	118.7	112.9
82.5°	72.5	77.2	85.7	98.8	111.1	117.9	109.1	99.2	92.7	87.4	85.2
85°	36.6	39.1	43.0	48.1	55.8	58.3	55.1	52.6	48.7	45.5	45.5
87.5°	14.0	14.5	16.6	18.1	20.6	22.9	23.0	22.6	22.7	22.3	22.1
90°	3.5	5.9	8.4	10.8	13.7	16.8	20.0	23.1	26.3	27.2	28.3
92.5°	28.2	29.8	31.5	33.1	34.9	36.7	38.5	40.2	42.0	42.8	43.6
95°	66.4	68.1	69.7	71.4	73.2	75.2	77.1	79.1	81.1	82.0	82.9
97.5°	116.0	117.3	118.6	119.8	121.2	122.6	124.0	125.4	126.8	127.9	129.0
100°	150.4	151.8	153.4	154.8	156.1	157.3	158.5	159.8	161.0	161.7	162.4
102.5°	189.3	190.1	191.0	191.9	193.1	194.7	196.3	197.9	199.5	200.3	201.0
105°	246.9	247.4	247.9	248.4	249.7	251.8	254.1	256.3	258.4	258.4	258.4
107.5°	314.1	314.4	314.7	315.0	315.7	316.5	317.4	318.2	319.1	319.9	320.7
110°	356.4	356.8	357.4	357.9	358.4	358.8	359.3	359.8	360.3	361.3	362.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	400.0	400.3	400.6	400.9	401.1	401.1	401.2	401.3	401.4	402.7	403.8
115°	466.2	466.8	467.6	468.3	468.4	468.0	467.5	467.0	466.6	466.7	467.0
117.5°	532.1	532.5	533.0	533.5	533.5	532.8	532.2	531.6	530.9	530.8	530.8
120°	574.2	575.7	577.1	578.6	578.7	577.5	576.3	575.0	573.8	573.6	573.3
122.5°	616.7	617.8	618.9	620.0	620.2	619.5	618.9	618.3	617.6	617.0	616.4
125°	681.9	682.6	683.3	684.1	684.2	683.7	683.2	682.8	682.3	681.3	680.3
127.5°	743.2	744.7	746.3	747.8	748.4	747.8	747.2	746.8	746.2	744.9	743.5
130°	783.8	785.8	787.8	789.7	790.3	789.6	788.8	788.2	787.4	786.5	785.4
132.5°	824.2	826.1	828.0	830.0	830.8	830.2	829.6	829.1	828.6	827.4	826.2
135°	885.2	886.6	888.2	889.6	890.2	889.9	889.8	889.5	889.2	888.3	887.3
137.5°	941.9	943.1	944.3	945.6	946.5	947.2	947.7	948.4	949.0	948.0	947.0
140°	981.4	982.6	983.8	985.0	985.7	986.0	986.2	986.5	986.7	986.5	986.2
142.5°	1017.3	1018.5	1019.7	1021.0	1021.7	1022.2	1022.7	1023.0	1023.5	1023.2	1023.0
145°	1072.6	1073.1	1073.6	1074.0	1074.7	1075.4	1076.1	1076.9	1077.6	1077.3	1077.1
147.5°	1122.1	1122.9	1123.8	1124.7	1125.5	1126.1	1126.8	1127.5	1128.2	1128.2	1128.2
150°	1155.8	1156.3	1156.8	1157.3	1157.8	1158.3	1158.8	1159.2	1159.7	1159.7	1159.7
152.5°	1184.1	1184.8	1185.4	1186.1	1186.6	1186.8	1187.2	1187.5	1187.8	1188.2	1188.5
155°	1227.7	1227.7	1227.7	1227.7	1227.8	1228.0	1228.2	1228.5	1228.7	1229.7	1230.7
157.5°	1265.0	1264.7	1264.4	1264.1	1264.0	1264.3	1264.5	1264.7	1264.9	1265.9	1266.9
160°	1288.5	1288.0	1287.5	1287.0	1286.8	1286.8	1286.8	1286.8	1286.8	1288.0	1289.2
162.5°	1309.3	1308.6	1308.0	1307.3	1307.0	1307.2	1307.4	1307.6	1307.8	1309.0	1310.2
165°	1336.4	1335.7	1334.9	1334.3	1333.9	1333.9	1333.9	1333.9	1333.9	1335.3	1336.8
167.5°	1357.8	1356.9	1355.9	1354.9	1354.5	1354.7	1354.9	1355.1	1355.3	1356.8	1358.3
170°	1370.1	1369.1	1368.2	1367.2	1366.7	1366.7	1366.7	1366.7	1366.7	1368.4	1370.1
172.5°	1379.8	1378.8	1377.8	1376.9	1376.4	1376.4	1376.4	1376.4	1376.4	1377.9	1379.4
175°	1389.9	1388.8	1387.9	1387.0	1386.4	1386.4	1386.4	1386.4	1386.4	1387.9	1389.3
177.5°	1394.2	1393.5	1392.6	1391.9	1391.5	1391.5	1391.5	1391.5	1391.5	1392.6	1393.8
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1393.1	1393.6	1399.3	1403.4	1401.3	1403.9	1404.9
5°	1522.0	1545.1	1557.3	1566.3	1566.9	1567.5	1572.7
7.5°	1704.8	1729.6	1747.7	1775.1	1783.3	1792.7	1790.0
10°	1838.2	1874.8	1906.2	1922.9	1940.9	1967.2	1946.0
12.5°	1962.9	2027.7	2075.6	2101.5	2118.4	2123.6	2113.3
15°	2168.5	2253.2	2298.8	2297.4	2355.2	2380.2	2341.1
17.5°	2357.1	2435.2	2497.8	2529.9	2578.0	2588.7	2583.8
20°	2472.6	2557.9	2606.6	2661.7	2686.8	2709.2	2713.1
22.5°	2572.1	2648.7	2701.0	2746.9	2767.9	2778.5	2784.9
25°	2674.6	2734.9	2766.4	2782.4	2788.1	2786.8	2778.5
27.5°	2667.6	2672.2	2637.5	2603.6	2573.1	2538.9	2527.1
30°	2598.3	2544.4	2448.2	2393.7	2313.5	2250.0	2275.7
32.5°	2416.1	2308.9	2200.8	2081.7	1983.0	1954.9	1926.7
35°	2062.1	1873.5	1763.2	1634.9	1583.6	1532.3	1497.0
37.5°	1668.3	1522.4	1391.6	1307.7	1256.2	1223.8	1206.4
40°	1442.5	1311.0	1203.2	1135.3	1096.2	1059.6	1054.4
42.5°	1262.3	1140.1	1059.0	1004.9	967.3	951.8	940.6
45°	1034.0	948.6	894.1	855.6	830.6	821.0	808.1
47.5°	875.2	814.8	773.9	747.7	728.9	721.7	720.7
50°	786.4	736.3	706.2	685.6	670.9	668.4	658.1
52.5°	719.6	676.3	652.8	634.9	624.2	617.0	614.0
55°	624.7	595.9	574.7	564.4	556.1	549.0	549.0
57.5°	546.6	522.5	508.5	499.7	497.2	492.2	489.0
60°	498.3	477.9	466.9	459.2	454.1	454.8	448.9
62.5°	451.2	437.8	427.4	419.7	413.6	413.7	414.1
65°	384.2	373.9	366.3	363.6	359.9	355.3	356.7
67.5°	325.6	315.9	309.9	305.6	304.3	301.8	305.6
70°	283.5	276.4	271.9	268.1	266.8	267.5	270.7
72.5°	245.0	240.0	237.0	235.3	232.4	232.5	234.8
75°	192.4	188.6	186.0	184.1	183.4	183.4	183.4
77.5°	141.4	140.4	139.3	136.5	136.6	137.4	137.5
80°	111.6	109.7	109.1	107.7	105.8	104.5	107.7
82.5°	83.4	81.4	80.8	80.6	77.6	77.4	80.0
85°	44.9	43.0	43.6	43.0	43.0	42.3	42.3
87.5°	21.8	21.4	21.0	21.7	21.3	20.8	22.0
90°	29.2	30.2	30.9	31.4	31.9	32.3	32.9
92.5°	44.4	45.1	45.4	45.1	44.9	44.5	44.2
95°	84.0	84.9	85.4	85.4	85.4	85.4	85.4
97.5°	130.2	131.3	131.8	131.7	131.6	131.5	131.4
100°	163.2	163.9	164.5	165.0	165.5	166.0	166.5
102.5°	201.7	202.5	202.7	202.6	202.6	202.5	202.4
105°	258.4	258.4	258.7	259.2	259.7	260.1	260.6
107.5°	321.5	322.3	322.4	322.2	321.9	321.6	321.3
110°	363.3	364.2	364.4	363.9	363.4	363.0	362.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	405.0	406.1	406.7	406.6	406.5	406.4	406.3
115°	467.2	467.5	467.5	467.2	467.0	466.7	466.6
117.5°	530.7	530.7	530.4	529.7	529.0	528.3	527.6
120°	573.2	572.9	572.5	572.0	571.6	571.1	570.5
122.5°	615.8	615.1	614.4	613.8	613.1	612.4	611.7
125°	679.4	678.3	677.4	676.5	675.4	674.5	673.5
127.5°	742.2	740.7	739.5	738.4	737.3	736.1	735.1
130°	784.5	783.5	782.1	780.4	778.7	777.0	775.3
132.5°	825.1	823.9	822.7	821.3	820.0	818.7	817.4
135°	886.3	885.3	884.6	884.1	883.6	883.2	882.7
137.5°	945.9	944.9	944.0	943.0	942.2	941.2	940.3
140°	986.0	985.7	984.8	983.1	981.4	979.7	978.0
142.5°	1022.8	1022.6	1021.7	1020.4	1019.1	1017.9	1016.5
145°	1076.9	1076.7	1076.0	1075.1	1074.0	1073.1	1072.1
147.5°	1128.2	1128.2	1127.5	1126.0	1124.5	1123.0	1121.6
150°	1159.7	1159.7	1159.0	1157.5	1156.1	1154.6	1153.2
152.5°	1188.9	1189.3	1188.9	1187.6	1186.4	1185.1	1183.8
155°	1231.6	1232.7	1232.3	1230.6	1228.9	1227.2	1225.4
157.5°	1267.9	1268.9	1268.8	1267.4	1266.0	1264.7	1263.3
160°	1290.4	1291.7	1291.8	1290.8	1289.8	1288.8	1287.9
162.5°	1311.5	1312.7	1312.5	1310.9	1309.4	1307.8	1306.3
165°	1338.2	1339.7	1339.5	1337.8	1336.1	1334.5	1332.8
167.5°	1359.8	1361.3	1361.3	1359.8	1358.3	1356.8	1355.3
170°	1371.9	1373.6	1373.6	1371.9	1370.1	1368.4	1366.7
172.5°	1380.9	1382.4	1382.3	1380.5	1378.8	1377.1	1375.5
175°	1390.8	1392.2	1392.1	1390.4	1388.7	1387.0	1385.3
177.5°	1395.0	1396.1	1396.0	1394.7	1393.3	1391.9	1390.6
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1

(END OF REPORT)